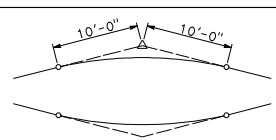


APPROXIMATE WALL OFFSET VALUES

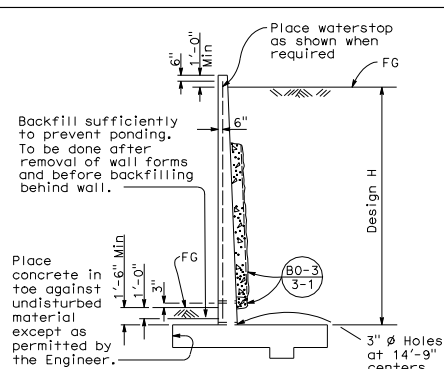
Not required for wall Types 3 and 4. Values for offsetting forms to be determined by the Engineer.

TABLE A

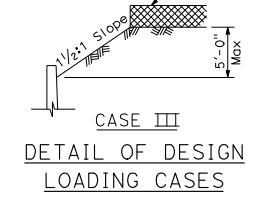
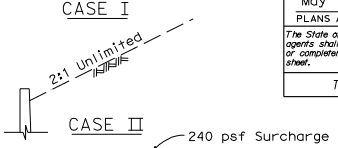
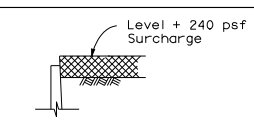
H	Offset
4'-12'	H 200
14'-16'	H 160
18'-20'	H 140
22'-24'	H 130
22'-24'	2 1/2"



Where shown on the plans



DESIGN AND DRAINAGE



Case I Level + 240 psf surcharge
Case II 2:1 Unlimited slope
Case III 1 1/2:1 Limited slope
5'-0" Max height
+240 psf surcharge

NOTE: Surcharge Limits Shown Apply To Retaining Walls Type 1 and 3.

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS

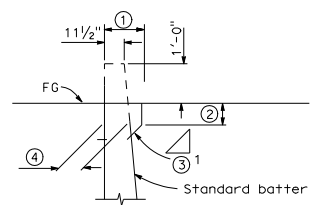
Overcome, Y. Hoo
REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

No. C45803
Exp. 12-31-06
CIVIL
STATE OF CALIFORNIA

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Dimensions ①, ② and ③ to be as shown elsewhere in the Project Plans.

④ Stem width at base of haunch to be determined as shown.

STEM WIDTH AT BASE OF HAUNCH

NOTES:

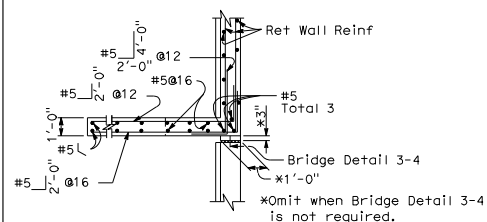
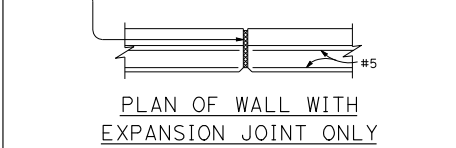
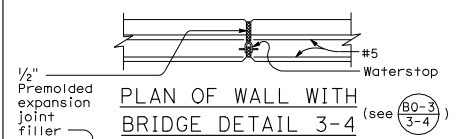
Design Conditions:
Design "H" may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting toe pressure listed in table.
Return wall not required unless shown elsewhere.

Design Data:
 $f_c = 1,450$ psi $f'_c = 3,600$ psi $f_s = 24,000$ psi
 $n = 10$ earth = 120 lb/ft³
240 psf surcharge:
Equivalent fluid pressure =
36 psf/ft maximum for determination of toe pressure.
27 psf/ft minimum for determination of heel pressure.
Earth pressures for 2:1 unlimited slope, 1 1/2:1 slope, and 1/2:1 unlimited slope, determined from Rankine's formula with $\phi = 33^\circ 42'$.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

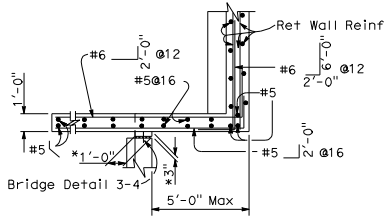
RETAINING WALL DETAILS No. 1

NO SCALE



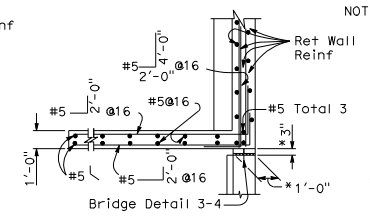
RETURN WALL TYPE "A"

Use where H=8' or less



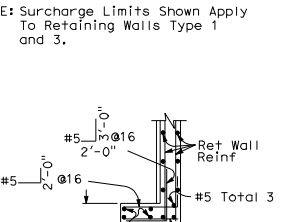
RETURN WALL TYPE "B"

Use where H=10' or more on offset walls



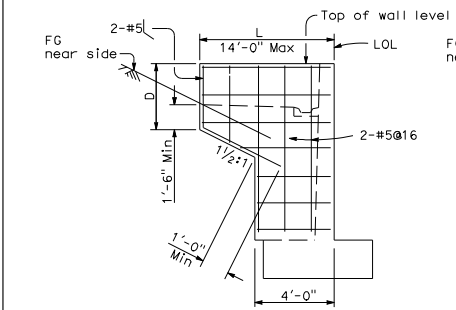
RETURN WALL TYPE "C"

Use where H=10' or more on straight walls



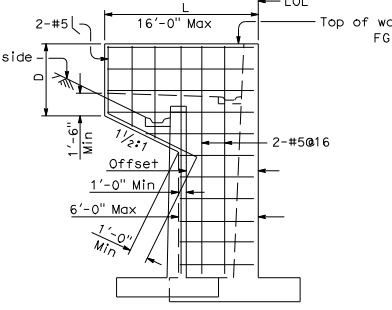
RETURN WALL TYPE "D"

Use where H=6' or less



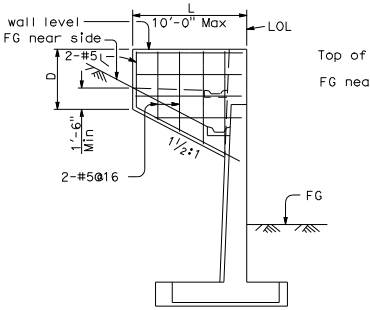
RETURN WALL TYPE "A"

Use where H=8' or less



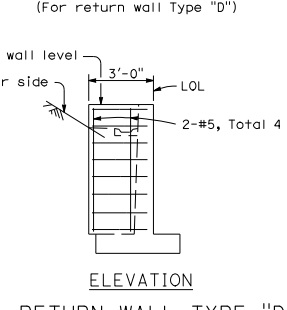
RETURN WALL TYPE "B"

Use where H=10' or more on offset walls



RETURN WALL TYPE "C"

Use where H=10' or more on straight walls



RETURN WALL TYPE "D"

Use where H=6' or less